

6HG5

Beam Power Tube

7-PIN MINIATURE TYPE
CONTROLLED CATHODE WARM-UP TIME MINIMIZES
EXTRANEIOUS SOUND DURING RECEIVER WARM UP.

For Use in the Audio Output Stages of Television Receivers

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	6.3 ± 0.6 volts
Current at heater volts = 6.3	0.450 amp
Peak heater-cathode voltage:	
Heater negative with respect to cathode	200 max. volts
Heater positive with respect to cathode	200 ^a max. volts

Minimum Cathode Warm-up Time:^b

Heater volts = 6.3, plate and grid-No.2 volts = 250, and cathode resistor (ohms) = 680.	14	sec
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Direct Interelectrode Capacitances

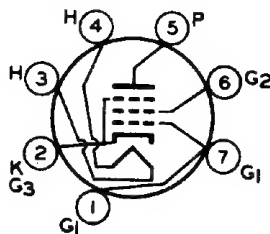
(Approx.):

G1 to P	0.4	pf
Input: G1 to (K+G3,G2,H)	8.0	pf
Output: P to (K+G3,G2,H)	8.5	pf

Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding Tip)	2" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No. E7-1)
Basing Designation for BOTTOM VIEW	7BZ

Pin 1 - Grid No.1
Pin 2 - Cathode,
Grid No.3
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid No.2
Pin 7 - Grid No.1

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

Plate Voltage	275 max. volts
Grid-No.2 (Screen-Grid) Voltage	275 max. volts
Grid-No.2 Input	2 max. watts



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Plate Dissipation. 12 max. watts
 Bulb Temperature (At hottest point on
 bulb surface). 250 max. °C

Typical Operation and Characteristics:

Plate Voltage.	180	250	volts
Grid-No.2 Voltage.	180	250	volts
Grid-No.1 (Control-Grid) Voltage.	-8.5	-12.5	volts
Peak AF Grid-No.1 Voltage.	8.5	12.5	volts
Zero-Signal Plate Current.	29	45	ma
Max.-Signal Plate Current.	30	47	ma
Zero-Signal Grid-No.2 Current.	3	4.5	ma
Max.-Signal Grid-No.2 Current.	4	7	ma
Plate Resistance (Approx.)	58000	52000	ohms
Transconductance	3700	4100	μmhos
Load Resistance.	5500	5000	ohms
Total Harmonic Distortion.	8	8	%
Max.-Signal Power Output	2	4.5	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation 0.1 max. megohm
 For cathode-bias operation 0.5 max. megohm

^a The dc component must not exceed 100 volts.

^b The time interval between the instant all electrode voltages are applied and the instant a current of one milliamperes flows in the plate circuit of the 6HG5.



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AVERAGE CHARACTERISTICS

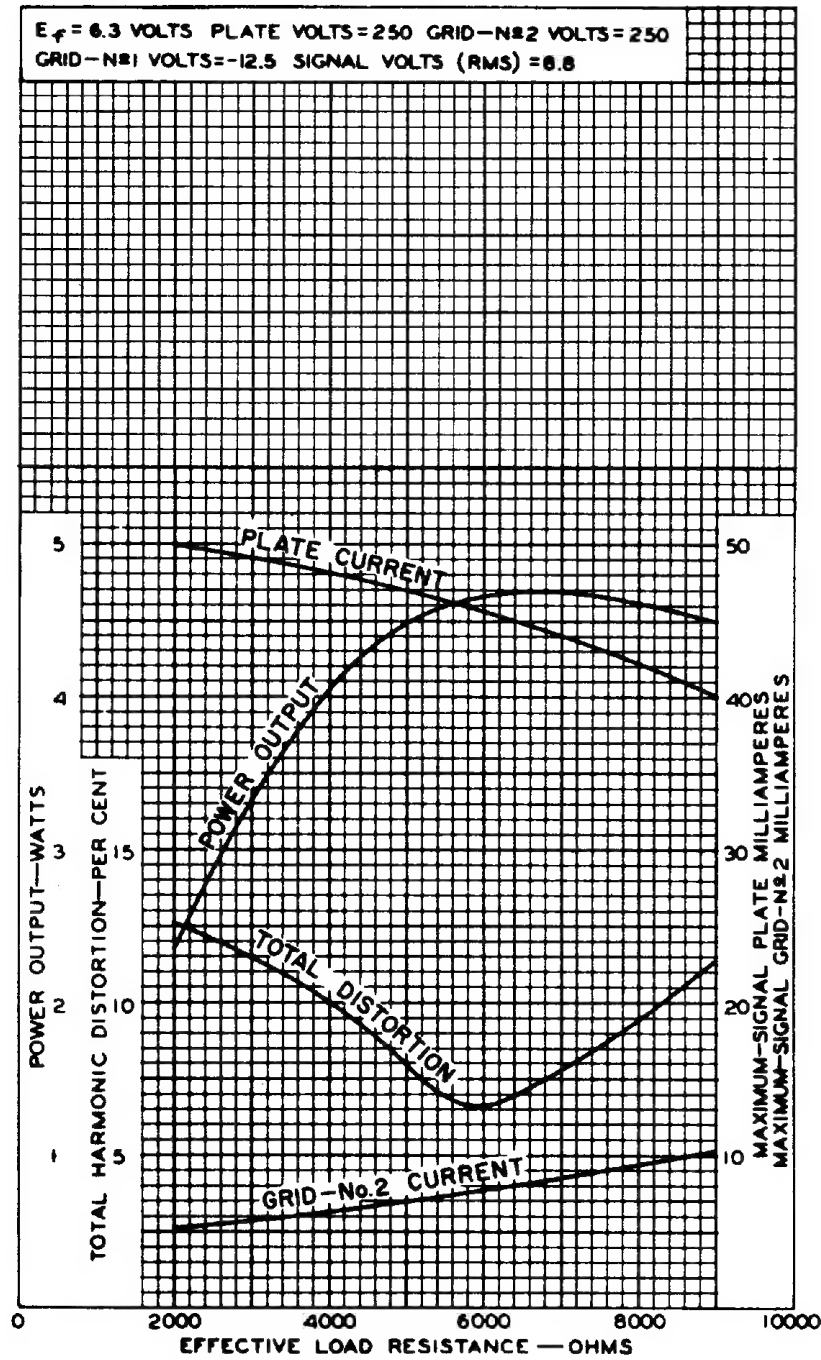


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OPERATION CHARACTERISTICS



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